

S/137/62/000/003/101/191
A060/A101

AUTHORS: Trunin, V. G., Nikitin, A. I.

TITLE: Thickness measurement of pipe walls from austenitic-class steel by a method using an applied induction coil

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 31, abstract 3D180 (V sb. "Proiz-vo trub", no. 5, Khar'kov, Metallurgizdat, 1961, 175-181)

TEXT: The paper considers the problem of thickness measurements of pipe walls by the method of eddy currents with the use of an applied induction coil. The thickness gauge consists of a generator, induction sensors, amplifier, indicating instrument (microvoltmeter), and an automation unit. The description of the principle of operation of the instrument and the circuits of the main parts of the instrument are given. The thickness gauge makes it possible to measure semi-automatically, under shop conditions, the wall-thickness and the variation in wall thickness of thin-walled and extra-thin walled pipes from austenitic steels. The dimensions of the pipes being controlled constitute

Card 1/2

S/137/62/000/003/101/191
A060/A101

Thickness measurement of pipe walls ...

(0.2 - 0.6)x(8 - 60) mm. The error of measurement < 1 %. The efficiency of the measuring installation is 1 - 3 meters per minute.

N. Yudina

[Abstracter's note: Complete translation]

Card 2/2

L 45055-61 27(1) EWT(m)/ENF(), T.TI 1JF(c) JD
ACC NR: AP6020466 (A) SOURCE CODE: UR/0094/66/000/003/0017/0018

AUTHOR: Trunin, V. S. (Engineer)

ORG: None

34
B

TITLE: Use of selenium rectifiers for closing VMG-133 circuit breakers

SOURCE: Promyshlennaya energetika, no. 3, 1966, 17-18

TOPIC TAGS: electrical engineering, ^{synchronous motor, connection,} selenium rectifier, circuit breaker / AVS selenium rectifier, VMG-133 circuit breaker, SD-320-333 synchronous motor, V-300-2k compressor

ABSTRACT: The use of AVS-selenium cells for closing a power circuit breaker of VMG-133 type at the Alapayevsk Machine-Tool Plant is described. The circuit breaker is used in connection with a V-300-2k compressor driven by a 6-kv synchronous motor of SD-320-333 type. The selenium cell system is used for rectifying the current from 380 v a-c to 220 v d-c in the operating mechanism circuit. An elementary circuit diagram of the selenium rectifier system is shown. The rectifier is made of selenium coated plates of 75 x 75 mm. The admissible overloads plotted against time are shown in a curve. The operation of closing by means of a rectifier and contactor system is explained with the help of a connection diagram. Orig. art. has: 3 diagrams.

SUB CODE: 09/ SUBM DATE: None

Card 1/1 LC

UDC: 621.316.571:621.314.64

TEUNIN, V.V., student (Kuybyshev)

Active diagnosis of hypertension in the polyclinic. Klin.med.
(MLRA 8:12)
33 no.6:85 Je '55.

1. Iz fakul'tetskoy terapeuticheskoy kliniki (zav.-prof. N.Ye.
Kavetskiy) Kuybyshevskogo meditsinskogo instituta.
(HYPERTENSION--DIAGNOSIS)

TRUNIN, Ye.

Simplify the wage system of the peat industry. Sots, trud 4
(MIRA 12:8)
no. 6:132 Je '59.

1. Nachal'nik otdela truda i zarabotnoy platy Shirokorachinskogo
torfopredpriyatiya.
(Peat industry) (Wages)

TRUNIN, Ye.S., Anzh.

Self-oscillations of a high-pressure rotor. Fizk. sta. 35
(MIRA 17:6)
no.3280-81 Mr '64.

NEVYAZHSKIY, I., inzh.; TRUNIN, Yu., inzh.

Horizons of aerial photography. Nauka i zhizn' 30 no.9:28-
32, 32 a, 1 of cover S '63. (MIRA 16:10)

1. Vsesoyuznyy aerogeologicheskiy trest.

67352

SOV/154-59-5-9/17

3(2) 3.4000

AUTHOR: Trunin, Yu. M., Junior Scientific Worker

TITLE: Some Problems of the Theory of Photogrammetry

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i
aerofotos"yemka, 1959, Nr 5, pp 105-116 (USSR)

ABSTRACT: The following problems are discussed in the article: 1) Coordinate transformation of the air survey points with unknown elements of intraorientation. 2) Special cases of coordinate transformation of the air survey. 3) Some interpretations of the terms of air survey geometry in the theory of photogrammetric models. Furthermore, the author discusses the separation of special cases of projective coordinate transformation of the points of a plane and the possibility of generalizing the terms of the photogrammetric model. Part of the formulas introduced have not yet been developed in photogrammetric publications. The last-mentioned part of generalization is nothing but a setting up and therefore still remains to be confirmed by further investigations. The author arrived at the following conclusions: The problems of aerial survey geometry can be solved with the help of plane geometry and do not require spatial interpretation. The relation between the

Card 1/3

67352
SOV/154-59-5-9/17

Some Problems of the Theory of Photogrammetry

point coordinates of a position and the air survey, which is widely used in photogrammetry, has only a trivial meaning since it is not possible to establish unambiguous coordinate relations between the points of a three-dimensional object and the plane. The analytical meaning of this relation can be derived from the zero identity of the determinant obtained from the parameters of the projective point transformation of space. When the problem is solved with known elements of intraorientation, three-dimensional interpretation is unnecessary if the special case of projective point coordinate transformation of the plane is employed. For this purpose it is also possible to employ a projective metric, but this hypothesis requires further evidence. The conditions for the intraorientation of aerial survey is implicitly expressed by a cubic equation for eight elements of intraorientation. In developing a model similar to the photographed object, three elements of intraorientation are connected by an equation of eighth degree. For the practical production of photogrammetric models it is possible to use computers since the deformation of the photographic material which is of a collinear nature, does not affect the determination of the elements of intraorientation.

Card 2/3

67352

Some Problems of the Theory of Photogrammetry SOV/154-59-5-9/17

The number of elements can be reduced to three. Application of five elements is suitable only if the ratio of the basis components of B_y/B_x and B_z/B_x may be regarded as small quantities of first order. There are 2 figures and 6 Soviet references.

SUBMITTED: November 15, 1958

✓

Card 3/3

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

TRUNIN, Yu.M.; ZAKHAROV, V.S.

Use of phosphorescent screens in making contact prints. Geod.
i kart. no.7:45-47 Jl '61. (MIRA 14:7)
(Photomechanical processes)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

S/035/62/000/012/052/064
A001/A101

AUTHORS: Trunin, Yu. M., Yermakov, Ye. G.

TITLE: A template-parallaxometer

PERIODICAL: Referativnyy zhurnal, Astronomiya i Geodeziya, no. 12, 1962, 19,
abstract 12G131 ("Byul. nauchno-tekhn. inform. M-vo geol. i okhrany
nedr SSSR", 1961, no. 5 (33), 57 - 58)

TEXT: A template was constructed in an expedition of the All-Union Aero-
geological Trust; it is used to measure (without a stereoscope) a pair of points,
whose relative elevation is to be determined, from two adjacent aerial photo-
graphs of the base (b) of photographing and difference of forward parallaxes
(Δp). The instrument set includes a table of parallactic coefficients (H/b)
using which one can easily determine (from a corresponding altitude of photo-
graphing and measured base) elevation by the formula:

$$h = (H/b) \cdot \Delta p.$$

Card 1/2

A template-parallaxometer

S/035/62/000/012/052/064
A001/A101

The table of expected errors m_h , expressed in terms of photography altitude, is presented as a function of distance '(r) on aerial photograph between the points being determined (from 1/700·H at $r = 10$ mm to 1/280·H at $r = 55$ mm). ✓

I. Mityachkin

[Abstracter's note: Complete translation]

Card 2/2

TRUNIN, Yu.M.

New photogrammetric apparatus for geological purposes. Razved.1 dkh.
nedr 28 no.4:15-20 Ap '62. (MIRA 15:4)

1. Kompleksnaya aerogeologicheskaya tematicheskaya ekspeditsiya.
(Aeronautics in geology—Equipment and supplies)

L 18468-66 EWT(d)/T/EWP(1) IJP(c) BB/GG
ACC NR: AT6004640 SOURCE CODE: UR/3190/65/000/004/0003/0008

41
40
B+1

AUTHOR: Trunin-Donskoy, V. N.; Firer, A. S.

ORG: none

TITLE: The introduction of certain speech characteristics into the BESM-2 electronic computer

SOURCE: AN SSSR. Vychislitel'nyy tsentr. Soobshcheniya po vychislitel'noy tekhnike, no. 4, 1965. Vyvod i obrabotka spetsial'noy informatsii v EVM (Input and processing of special information in the electronic computer), 3-8

TOPIC TAGS: speech recognition, computer application, computer input unit

ABSTRACT: One of the trends in computer speech recognition is the machine analysis of speech characteristics obtained by circuits containing Schmidt triggers. Such circuits separating out threshold speech characteristics can be found in a paper by G. L Tsemel' (Problemy peredachi informatsii, vyp. 18, M., Izd-vo AN SSSR, 1964) who also discussed optimum speech characteristics. The present paper discusses in considerable technical detail the introduction of information supplied by the threshold circuits into the

Card 1/2

L 18468-66

ACC NR: AT6004640

BESM-2 electronic computer. The circuitry connecting such units with the channels of the computer was developed and built at Computer Center, AN SSSR (Vychislitel'nyy tsentr, AN SSSR) in 1963. The circuits functioned normally and made possible the input of sets of characteristics of word attributes into the computer memories for analysis and readout. Orig. art. has: 5 figures.

SUB CODE: 09. / SUBM DATE: none / ORIG REF: 002

Card 2/2

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

TRUNINA, A.A.

Goiter of the accessory thyroid glands. Trudy Inst. klin.
i eksp. khir. AN Kazakh. SSR 8:91-94 '62. (MIRA 17:7)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

THONINA, A.A.

Treatment of tuberculosis in the lymphatic glands of the neck. Trudy
Inst. klin. i eksp. khir. AF Kazakh. SSR 4:112-121 '58. (MIRA 12:4)
(LYMPHATICS--TUBERCULOSIS) (STREPTOMYCIN)

TEUHINA, A.A.

Effect of Yany-Kurgan climate on chronic diseases of the kidneys.
Izv. AN Kazakh.SSR Ser.khir. no.1:113-120 '47. (MLRA 9:8)

1. Institut klinicheskoy i eksperimental'noy khirurgii Akademii
nauk KazSSR.
(YANY-KURGAN--CLIMATOLOGY, MEDICAL)
(KIDNEYS--DISEASES)

TRUNINA, A.A.

Treatment of certain kidney patients under climatic conditons
prevailing at the resort of Yana-Kurgan. Izv. AN Kazakh.SSR. Ser.
khir. no.3:114-150 '51. (MLRA 9:8)
(KIDNEYS--DISEASES) (YANA-KURGAN--CLIMATOLOGY, MEDICAL)

L 7888-66 EWT(m)/EPF(c)/ZWP(j) RM
ACC NR: AP5025043

SOURCE CODE: UR/0286/65/000/016/0085/0085
AUTHORS: Kolesnikov, G. S.; Tevlina, A. S.; Novikova, S. P.; Alovitdinov, A. B.; Levin, B. B.; Trunina, G. I.

ORG: none

TITLE: Method for obtaining poly- α -phenylvinylphosphonic acid. Class 39, No. 173955 (announced by Moscow Order of Lenin Chemo-technological Institute im. D. I. Mendeleev (Moskovskiy khimiko-tehnologicheskiy institut))

SOURCE: Byulleten' izobreteni i tovarnykh znakov, no. 16, 1965, 85

TOPIC TAGS: phenylvinylphosphonic acid, polymer, organic phosphorus compound, cerium compound, alcohol

ABSTRACT: This Author Certificate presents a method for obtaining poly- α -phenylvinylphosphonic acid. The α -phenylvinylphosphonic acid is polymerized in an aqueous solution in the presence of redox initiators such as salts of tetravalent cerium and polyvinyl alcohol.

SUB CODE: 07/ SUBM DATE: 08May64

UDC: 678.746.67

Card 1/1

LITOVKO, Semen Fedorovich; MAKSIMENKO, Georgiy Dmitriyevich; TRUNINA,
Mariya Vasil'yevna; SHAVRIN, V., red.; MEDVEDEVA, R., red.;
LEBEDEV, A., tekhn. red.

[Reviewing and auditing the economic activity of industrial
enterprises] Reviziia khoziaistvennoi deiatel'nosti predpriatiia.
Moskva, Gosfinizdat, 1962. 149 p. (MIRA 15:6)
(Industrial management) (Auditing)

5

L 1585-66
AM5015051

EWT(1)/EWA(h) GW
BOOK EXPLOITATION

UR/

100
58 BH

Dortman, Nina Borisovna; Vasil'eva, Valentina Ivanovna; Veinberg, A. K.; Dubin-
chik, E. Ya.; Zhdanov, V. V.; Kotova, I. F.; Il'yev, M. G.; Trunina, V. Ya.;
Khoreva, B. Ya.; Sholpo, L. Ye.

44.55
44.55
44.55

Physical properties of rocks and mineral resources of the USSR (Fizicheskiye svoy-
stva gornykh porod i poleznykh iskopayemykh SSSR) Moscow, Izd-vo "Nedra", 1964.
325 p., illus., biblio. (At head of title: Gosudarstvennyy geologicheskiy komi-
tet SSSR. Vsesoyuznyy nauchno-issledovatel'skiy geologicheskiy institut) 44.55
3000 copies printed. Under the editorship of O. M. Gapayeva; Technical editors: A. S. Pelesina; Proofreaders:
K. S. Tereptsova

TOPIC TAGS: magmatic rock, metamorphic rock, mineralogy, petrology, seismology
PURPOSE AND COVERAGE: This book is the result of the generalization of materials
collected primarily by geophysical trusts and geologic agencies, as well as by the
institute named (VGEGEI). Principal attention is paid to the basic laws governing
variations in the physical properties of rocks, various petrographic groups, and
useful minerals of diverse mineralogic composition. The physical parameters to

Card 1/3

L 1585-66
AM5015051

48

which special attention is given include the density, the magnetic susceptibility, the specific electrical resistance, and the rate of propagation of longitudinal and transverse waves. The compilers of the book are colleagues of the Laboratoriya fizicheskikh svoystv gornykh pored and the Otdel petrografii of VSEGEI. They express their gratitude to B. A. Andreyev, A. A. Logachev^{44,50}, I. Martynova^{44,51}, S. V. Moskvaleva^{44,52}, A. S. Nemenov^{44,53}, T. N. Simonenko^{44,54}, K. G. Bogdanova^{44,55}, Ye. A. Butakova^{44,56}, V. P. Dybkov^{44,57}, B. K. L'vov^{44,58}, V. I. Moskvaleva^{44,59}, I. A. Petrenko^{44,60}, Yu. Ye. Rytik^{44,61}, Ye. Ya. Stani-
kevich^{44,62}, A. T. Solov'yev^{44,63}, and A. D. Shcheglov^{44,64}.

TABLE OF CONTENTS:

Introduction	- - 3
Part I. Physical properties of magmatic and metamorphic rocks	
Ch. I. Physical properties of rock-forming minerals	- - 9
Ch. II. Density of rocks	- - 33
Ch. III. Magnetic properties of rocks	- - 93
Ch. IV. Specific electrical resistance of rocks	- - 172
Ch. V. Rate of propagation of longitudinal elastic waves in rocks	- - 193
Ch. VI. Change in physical properties of rocks, depending on manifold pressure	

Card 2/3

L 1585-66
AM5015051

and temperature -- 204
Part II. Physical properties of metallic and nonmetallic mineral resources
Ch. VII. Physical properties of ores -- 248
Ch. VIII. Physical properties of nonmetallic mineral resources -- 299
Literature -- 313
Appendix -- 320

SUB CODE: ES

SUBMITTED: 22Sep64

MR KEY REV: 180

OTHER: O4

DATA FILE: 214474

dcy
Card 3/3

UNKSOV, V.A.; BOROVIKOV, P.P.; RUNDKVIST, D.V.; PAVLOVA, I.G.;
ALYAVDIN, V.F.; VOLOSTNYKH, G.T.; ROZINOV, M.I.; SHCHEGLOV, A.D.;
IVANOVA, A.A.; KORMILITSYN, V.S.; SHCHEGLOV, A.D.; ARTEMOV, V.R.;
RYTSK, Yu.Ye.; GINZBURG, A.I.; DORTMAN, N.B.; TOPORETS, S.A.;
TRUNINA, V.Ya.; YAKOVLEV, I.K.; BOGDANOVA, L.A.; SARBEYEVA, L.M.

Problems of the geology and characteristics of the distribution
of mineral deposits. [Trudy] VSEGEI 92:53-89 '63. (MIRA 17:4)

DORTMAN, Nina Borisovna, VASIL'YEV, Valentina
Ivanovna; VEYNBERG, A.K.; DUBINCHIK, E.Ya.; ZHDANOV, V.V.;
ZOTOVA, I.F.; IL'AEV, M.G.; TRUNINA, V.Ya.; KHOREVA, B.Ya.;
SHOLPO, L.Ye.; GIPYEVA, G.M., red.; KALMYKOVA, I.A.,
ved. red.

[Physical properties of rocks and minerals in the U.S.S.R.]
Fizicheskie svoistva gornykh porod i poleznykh iskopaemykh
SSSR. Moskva, Nedra, 1964. 325 p. (MIRA 18:1)

1. Leningrad. Vsesoyuznyy geologicheskiy institut.

GUREVICH, B.G., kand.tekhn.nauk; TRUNINA, Ye.V., inzh.

Increasing the fatigue strength of springs for high-speed diesels
by nitriding. Energomashinostroenie 4 no.4:36-38 Ap '58.
(MIRA 11:7)

(Springs (Mechanism)) (Case hardening)

FAIR USE

USSR/Soil Science. Mineral Fertilizers.

I-5

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22475

Author : Kornilov, M.F., Borisova, E.M., Trunina, Z.V.

Inst :

Title : Soil Liming and Varieties.

Orig Pub: Tr. Vses. n.-i. in-ta udobr., agrotekhn. i agropochvoved., 1955,
No 31, 202-250

Abstract: Based on vegetative and field-laboratory experiments with different varieties of a number of agricultural plants conducted in the Leningrad division of the All-Union Institute of fertilizers, agrotechnique and agrosoil science, it was established that varieties grown on neutral soils, rich in calcium, are more responsive to liming when grown on acid soils than varieties grown in districts further north on acid soils. These differences in behavior of varieties were mostly observed in summer wheat, barley, flax, peas, clover, and were less clearly expressed in summer

Card : 1/2

-1-

USSR/Soil Science. Mineral Fertilizers.

I-5

Abs Jour: Referat Zh-Biol., No 6, 25 March, 1957, 22475

rye, vetch, buckwheat. Sensitivity to soil acidity of different oat varieties had no connection with their origin.

Card : 2/2

-2-

COUNTRY	:	USSR
CATEGORY	:	Soil Science. Mineral Fertilizers.
ART. JOUR.	:	RZhBiol., No. 3 1959, №. 10695
AUTHOR	:	Korobkov, M. F., Trunina, Z. V., Illyuyevs, V. P.
INST.	:	Northeastern Scientific Research Institute of Agriculture
TITLE	:	
ORIG. PUB.	:	Byul. nauchno-tehn. inform. Sev.-Zap. n.-i. in-ta s. kh., 1958, №. 1-2, 16-19
ABSTRACT	:	No abstract.

CARD: 1/1

TRUNINA, Z. V.

"Relation of Varieties of Agricultural Crops to Soil Reaction and Their Responsiveness to Liming." Cand Agr Sci, All-Union Sci-Res Inst of Fertilizers, Agricultural Engineering, and Soil Sci, All-Union Order of Lenin Academy of Agricultural Sciences imeni V. I. Lenin, Leningrad, 1954. (KL, No 4, Jan 55)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (13)
SO: Sum. No. 598, 29 Jul 55

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

TRUMPF, V.H.; FIRER, A.S.

Input of some speech data signs in the BESM-2 digital computer.
(MIRA 18:9)
Sob. po vych. tekhn. no.4:3-8 '65.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

"APPROVED FOR RELEASE: 03/14/2001

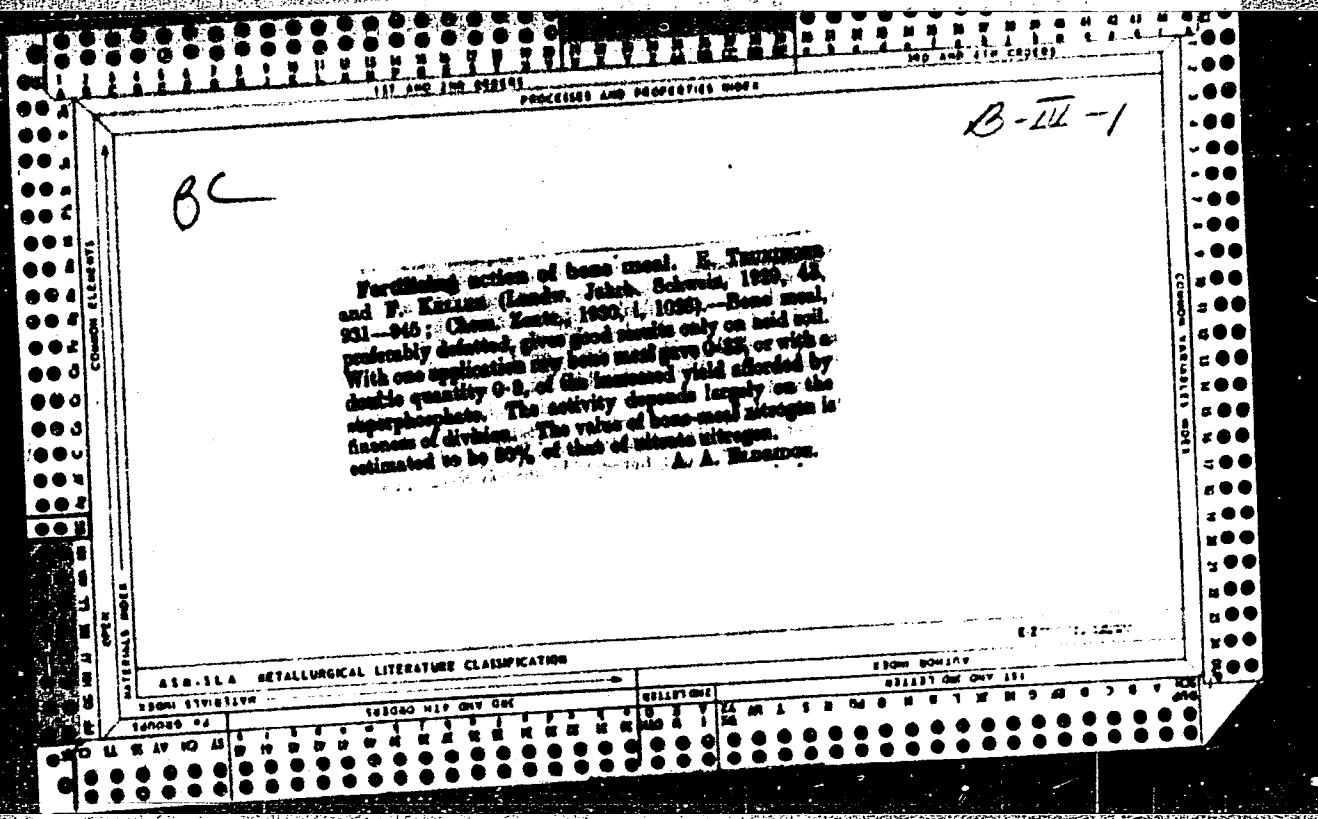
CIA-RDP86-00513R001756820009-3

TRUNIN-DOUKSKOY, V.N.; FIRER, A.S.; KURAGIN, M.V.

Algorithm for the recognition of a limited number of sound
images. Soob. po vych. tekhn. no.4:9-37 '65. (MIFI 18:9)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"



TRUNJEWSKI, W.

"Building with clay blocks." Budownictwo Wiejskie, Warszawa, Vol 6, No 2,
Mar./Apr. 1954, p. 4.

SO: Eastern European Accessions List, Vol 3, No 11, Nov 1954, L.C.

TRUNKA, Karel [Trnka, K.], inzh.

Comparison of the cost of ferroconcrete constructions, made
of prestressed and conventional concrete. Stroitelstvo 10
no. 5:20-23 . 8-0'63.

TRUNKA, Karl K., inzh.

Suitable stress systems of ferroconcrete constructions in
Bulgaria. Stroitelstvo 11 no.6:1-4 N-D '64.

TRUNKÁT, J., DVM; ČERNOHĽÁVEK, V., Promoted to DVM.

Czechoslovakia

Brno, Veterinařství, No 12, 1962, pp 376-378

"Occurrence of Izo Anti-bodies in Sows and their
Influence on the Mass Occurrence of Haemolytic
Icterus in Nursing Piglets."

2

CZECHOSLOVAKIA/Microbiology - Microbes Pathogenic for Man and Animals. Bacteria of the Intestinal Group. F

Abs Jour : Ref Zhur Biol., No 22, 1958, 99387

Author : Kral, J., Trunkat, J.

Inst :
Title : Bacteriophage in the Prophylaxis and Therapy of Salmonellosis.

Orig Pub : Veterin. med., 1958, 3, No 1, 43-58

Abstract : No abstract.

Card 1/1

TRUNKIN, K.I.

Loading and Unloading

Increasing the standards of work of loading diesel powered ships. Rech. transp. 12 no. 2 March and April.

9. Monthly List of Russian Accessions, Library of Congress, August 1958. Unclassified.
2

TEB-1 TAPE 1000

RESULTS. Results are presented of laboratory and field tests of the TeB-1 initiation at the request

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

TRUN'KOV, I. I.

Trun'kov, I. I. - "Geodetic Work in order to Dry Out Large Agricultural Areas." Min Higher Education USSR. Moscow Inst of Land Management. Moscow, 1956 (Dissertation for the Degree of Candidate in Technical Sciences).

So: Knizhnaya Letopis', No. 10, 1956, pp 116-127

TRUNKOVSKIY, Lazar' Yemel'yanovich; KHROMCHENKO, G.Ye., nauchn.
red.; KOERINSKAYA, M.V., red.

[Maintenance electrician of industrial electric power
systems] Elektromonter po ekspluatatsii promyshlennnykh
elektroustanovok. Moskva, Vysshiaia shkola, 1965. 363 p.
(MIRA 18:8)

TRUNKOVSKY, Lazar' Yemel'yanovich; KUZNETSOV, Yuriy Petrovich;
PODGUZOV, M.I., red.; MEDNIKOVA, A.N., tekhn. red.

[Automatic control cables, manual on the installation and use of
control and special cables] Kabeli avtomatiki; spravochnik po
montazhu i ekspluatatsii kontrol'nykh i spetsial'nykh kablei.
Moskva, Voenizdat, 1962. 365 p. (MIRA 15:6)
(Electric cables) (Automatic control)

DELIBASH, B.A.; ZHIVOV, M.S.; TRUNKOVSKIY, L.Ye.; SOKOLOV, D.V.,
inzh., nauchnyy red.; VDOVENKO, Z.I., red. izd-va;
SHERSTNEVA, N.V., tekhn. red.

[Modern methods for conducting electrical equipment installation operations] Progressivnye metody proizvodstva elektromontazhnykh rabot. Moskva, Gosstroizdat, 1962. 134 p.
(MIRA 15:12)

(Electric wiring) (Electric lines)

MARTIROSOV, S.T. (Baku); Al'shits, A.G.; HERENSHTEYN, Ye.V.;
(g. Bezhitsa, Bryanskoy oblasti); TRUNKOVSKIY, L.Ye.

No-load limits for transformers. Prom.energ. 13 no.1:7-11
Ja '58. (MIRA 11:1)

1.Tsentroelektromontazh (for Trunkovskiy).
(Electric transformers)
(Electric switchgear)

SOV/94-58-11-12/28

AUTHOR: Trunkovskiy, L.Ye., Engineer

TITLE: Laying Rubber Insulated Control Cables in the Earth
(O proklyadke kontrol'nykh kabeley s rezinovoy
izolyatsiyey v zemle)

PERIODICAL: Promyshlennaya Energetika, 1958, Nr 11, pp 26-28 (USSR)

ABSTRACT: Until recently, cables were nearly always laid in ducts or tunnels and did not come into direct contact with water in the soil. With the extension of automatic and telecontrol systems it is becoming more common to lay control cables directly in the ground. Useful experience has been obtained about this practice. A great deal depends, of course, on the grade of cables, paper insulated lead covered and armoured cables have given very little trouble. Rubber-insulated cables, even when lead sheathed and armoured, have been less satisfactory. Moreover, paper-insulated control cables are cheaper than rubber and so should be used wherever possible. Analysis of cable faults shows that most of the trouble with rubber insulated cables has resulted from manufacturing defects in the lead or polyvinyl

Card 1/2

SOV/94-58-11-12/28

Laying Rubber Insulated Control Cables in the Earth

chloride sheathing. Physical defects are described. Numerous examples of cable faults are described. It was found necessary to make special tests to ensure that the cable sheathing was satisfactory before the cables were laid. This test is made with internal air pressure. Jointing practice and the protection of junction boxes is described.

ASSOCIATION: Tsentroelektromontazh

Card 2/2

TRUNKOVSKIY, Lazar' Yemel'yanovich; KHIRONCHENKO, G.Ye., nauchnyy red.;
CHISLOV, M.M., red.; TÖKER, A.M., tekhn. red.

[Electrician's manual on the use of industrial electric power
systems] Elektromonter po ekspluatatsii promyshlennyykh elektro-
ustanovok. Moskva, Vses. uchebno-pedagog. izd-vo Proftekhizdat,
1961. 226 p. (MIRA 15:2)
(Electric engineering—Handbooks, manuals, etc.)

TRUNKOVSKIY, Lazar' Yemel'yanovich; KHROMCHENKO, O.Ye., nauchn.
red.; CHISLOV, M.M., red.; TOKER, A.M., tekhn. red.

[Electrician of industrial electric power systems] Elek-
tromonter po ekspluatatsii promyshlennyykh elektrostanovok.
2. izd. Moskva, Proftekhizdat, 1963. 226 p. (MIRA 16:8)
(Electric engineering--Handbooks, manuals, etc.)

BOGDANOV, K.D.; DELIBASH, B.A.; VENETSIANOV, Ye.A.; GUREYEV, V.A.;
ZHIVOV, M.S.; ZEVAKIN, A.I.; NAYFEL'D, M.R.; NEYMAN, Kh.G.;
KUZNETSOV, M.P.; RIZOVATOV, A.V.; RUBINSSTEIN, Ya.A.;
TRIFONOV, A.N.; TRUNKOVSKIY, L.Ye.; KHROMCHENO, G.Ye.

[Organization and performance of electrical equipment installation operations] Organizatsiya i proizvodstvo elektromontazhnykh rabot. Moskva, Stroizdat, 1964. 602 p.
(MIRA 18:3)

TRUNOV, A. glavnyy inzhener; REMENNYY, L., inzh.; FEDOROV, F., inzh.

Converting to central control system at the grain elevator of
the Kirov Milling Combine. Muk.-elev.prom. 25 no.6:9-10
Je '59.

1. Leningradskiy mel'nicnyy kombinat im. S.M.Kirova (for Trunov).
2. Odesskiy proyektno-konstruktorskiy institut Pishcheprom (for Remenny, Fedorov).
(Grain elevators--Equipment and supplies)
(Automatic control)

TRUNOV, A., inzhener.

Using air chutes in flour transportation. Muk.-elev.prom.22 no.12:
19-21 D '56. (MLRA 10:2)

1. Leningradskiy mel'nichnyy kombinat im. S.M.Kirova.
(Flour mills--Equipment and supplies)

TRUNOV, A. Engineer

"Dangers of Ground Icing of Aircraft"
Grezhdanskaya Aviatsiya No. 1, 1956, pp 31-33.

Translation 1071293

TRUNOV, A., inzhener

Milling wheat from eastern districts. Mkh.-elev.prom. 21 no.5:18-22
My '55. (MIRA '8:9)

1. Leningradskiy mel'nichnyy kombinat imeni S.M. Kirova.
(Wheat milling)

KUPRITS, Ya.N., prof. doktor tekhn. nauk; DEMIDOV, P.G., prof.;
DEMIDOV, A.R., prof. doktor tekhn. nauk; GINZBURG,
M.Ye., kand. tekhn. nauk, dots.; DROGALIN, K.V., kand.
tekhn. nauk; NAUMOV, I.A., kand. tekhn. nauk;
TSETSINOVSKIY, V.M., kand. tekhn. nauk; TRUNOV, A.F.,
inzh., retsenzent; KLEYMAN, L.M., red.

[Technology of grain processing; flour, groats and mixed
feed industries] Tekhnologija pererabotki zerna; muko-
mol'noe, krupianoe i kombikormovoe proizvodstvo. Moskva,
Kolos, 1965. 504 p. (MIRA 18:12)

KOZIN, A.I.; TRUNOV, A.F.; SOVENKO, P.S.; YEGOROVA, Ye.I.; AKATNOV,
I.N.; KOLUSHEV, V.I.; PANASENKO, L.I.; KATS, A.R.; AKSENOV,
T.Ye.; LYUBIN, S.G.; SOSNER, S.Ye.; RYABININ, M.M.; MEL'NIKOV,
P.N.; KLYUSHINA, L.T.; KUTUZOVA, M.G.; GOLOVNYA, V.S.;
IVANOV, A.F.; SINEV, I.I.

I.A. Danilov; obituary. Muk.-elev. prom. 26 no. 12:26 D '60.
(MIRA 13:12)

(Danilov, Ivan Aleksandrovich; d. 1960)

TRUNOV, A.F.

BOBROV, A.R.; SIBIRYAKOV, A.A.; AKATNOV, I.N.; BIL'DE, A.E.; KOZIN, A.I.,
GROSMAN, I.S.; RASKAKOV, A.I.; YATSYSHIN, A.M.; TRUNOV, A.F.;
KUTUZOV, N.L.; VICHIK, Ya.B.; CHUMBAROVA, A.A.; PRYAKHTIN, R.I.;
ZINOV'YEV, N.I.; MIKHAYLOVA, S.I.

Georgii Alekseevich Uarov. Muk.-elev.prom. 21 no.1:31 Ja '55.
(Uarov, Georgii Alekseevich, 1898-1954) (MIRA 8:5)

TRUNOV, Aleksandr Fedorovich; VYSOTSKAYA, R.S., red.; GOLUBKOVA, L.A.,
tekhn. red.

[Aerosol transportation and the aeration of flour in mills]
Aerozol' transport i aeratsiia muki na mel'nitsakh. Moskva,
Zatotoizdat, 1962. 67 p.
(Pneumatic conveying) (Flour) (MIRA 15:7)

STEPANOV, G.K.; TRUDOV, A.M.

Electroreduction of oxygen in molten carbonates. Trudy Inst.
elektrokhim. UFAV SSSR no.6:81-85 '65. (MIRA 18:11)

23630

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S/200/61/000/006/002/004
D206/D303AUTHORS: Stepanov, G.K. and Trunov, A.M.TITLE: Electroconductivity of the system NiO - Li₂O in the temperature range from 20 to 900°C

PERIODICAL: Akademiya nauk SSSR. Sibirskoye otdeleniye. Izvestiya, no. 6, 1961, 67-70

TEXT: The authors describe electrical conductivity experiments performed on nickel oxide specimens with differing lithia content in the temperature range 20 - 900°C and discuss the obtained results. Their work is a continuation of the initial research by Ye. Fervey (Ref. 1: Okisnyye poluprovodniki (Oxide Semiconductors), Sb. Poluprovodnikovyye materialy (Coll. Semiconducting Materials), IL, M, 1954) and by D. Parravano et al (Ref. 2: Khemosorbtsiya i kataliz na okisnykh poluprovodnikakh (Chemisorption and Catalysis on Oxide Semiconductors), Sb. Kataliz. Elektronnyye yavleniya (Coll. Catalysis. Electronic Phenomena), IL, M, 1958) at temperatures below 200°C. The samples studied by the authors have a length and diameter of ab-

X

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S/200/61/000/006/002/004

D206/D303

Electroconductivity of the system...

out 10 mm. They are prepared by impregnating finely-powdered nickel oxide obtained from the thermal decomposition of nickel nitrate with a concentrated solution of lithium acetate, this technique being similar to the one described by Kh. Valeyev et al (Ref. 4: Tr. Gos. issled. elektrokeramicheskogo in-ta (Works of the State Research Electro-ceramic Institute), vyp. 2, 1957, p. 20). Next the residue is evaporated to dryness; fired in a corundum crucible; aged for 1 hour at 1200°C; extruded under a pressure of 1000 kg/cm²; sintered for 1 hour at 1200°C; and then silvered in order to decrease the transitional resistance of the contact surfaces. The conductivity measurements are made on a d.c. bridge, with a voltage drop of about 1 V for the specimen; this procedure was adopted in view of the subsequent use of the material for the oxygen electrode of a fuel cell. It is deduced from the graphs given that the specific conductivity throughout the studied temperature range has a positive temperature coefficient irrespective of the sample composition. According to these data the increase in the specific conductivity with rising temperature is especially pronounced for low lithia content (0.1 - 0.5 mol. %); above the level of 5 mol.% Li₂O there is less variation of this %).

Card 2/4

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S/200/61/000/006/002/004
D206/D303

Electroconductivity of the system...

coefficient with increasing temperature. The results obtained from conductivity measurements at 20°C and 200°C are given graphically, from which it is evident that the conductivity markedly increases as the proportion of NiO to Li₂O in the specimen decreases at the former temperature. Thus, at a concentration of 20 mol.% Li₂O the conductivity is 10⁶ times higher than is the case with a sample consisting purely of nickel oxide. Since the specimens were prepared by sintering compressed powder, it was necessary to ascertain first the dependence of the conductivity at room temperature on the sintering temperature: this was done by sintering samples with a content of 5 mol.% Li₂O at various temperatures and measuring their conductivity. It was hence established that sample conductivity reaches a maximum at 1100 - 1200°C, so that all specimens utilized in the foregoing tests were accordingly sintered at this temperature. There are 2 figures, 1 table and 6 references: 3 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: E. Gorin, H.L. Recht, Fuel Cells. Mechanical Engineering, March 1959, 63 Chemical Engineering Progress, 1959, 8, p 51; P.I. Fensham, Solid Solutions of Lithium Oxide in Nickel

Card 3/4

23630

S/200/61/000/006/002/004
D206/D303

Electroconductivity of the system...

Oxide. J. Amer. Chem. Soc. 76, 4, 1954, 969.

ASSOCIATION: Ural'skiy filial AN SSSR (Urals Branch AS USSR)
Sverdlovsk

SUBMITTED: July 12, 1960

X

Card 4/4

STEPANOV, G.K.; TRUNOV, A.M.

Electric conductivity of the system NiO - Li₂O in the temperature range from 20 to 900° C. Izv.Sib.otd.AN SSSR no.6:67-70 '61.
(MIRA 14:6)

1. Ural'skiy filial AN SSSR, Sverdlovsk.
(Nickel oxide—Electric properties)
(Lithium oxide—Electric properties)

STEPANOV, G.K.; TRUNOV, A.M.

Behavior of a platinum electrode in fused carbonates when a mixture of oxygen and carbon dioxide is flowing around it.
Dokl. AN SSSR 142 no.4:866-869 F '62. (MIRA 15:2)

1. Institut elektrokhimii Ural'skogo filiala AN SSSR.
Predstavлено академиком А.Н.Фрумкиным.
(Electrodes, Platinum)
(Electrochemistry)

STEPANOV, G.K.; ARKHIPOV, G.G.; TRUNOV, A.M.

Corrosion testing of porous specimens in melts by the gas
permeability method. Trudy Inst.elektrokhim.UFAN SSSR no.1:
73-77 '60. (MIRA 15:2)

(Porous materials)
(Electrolytic corrosion)
(Salts)

54700

31673
S/631/60/000/001/011/014
B110/B102

AUTHORS: Stepanov, G. K., Arkhipov, G. G., Trunov, A. M.

TITLE: Corrosion tests of porous samples in melts by the method of gas permeability

SOURCE: : Elektrokhimiya rasplavlennykh solevykh i tverdykh elektrolitov, no. 1, 1960, 73 - 77

TEXT: In such corrosion tests, the gas permeabilities of porous Ni samples immersed in carbonate and chloride melts are periodically measured, their dependence on the immersion time is determined, and the corrosion processes are judged from their change. This simple method is especially suited for qualitative corrosion tests of porous electrodes of heating elements, since it yields reliable curves on the corrosion in the melt. Its sensitivity depends on the mean pore size and thus on the permeability. The gas purified from oxygen impurities by Ca heated in a tube to 700°C had a constant excess pressure of 2 at. The cell consisted of a quartz tube with a corundum crucible containing the melt. The sample was immersed into the melt by means of a special Ni holder. Ni powder (grain

Card 1/3

Corrosion tests of porous samples...

31673

S/631/60/000/001/011/014
B110/B102

size: 0.16 - 0.30 mm; sieve analysis), obtained from nickel oxide by hydrogen reduction at 700°C, was pressed to samples at 1.6 t/cm². The samples were first sintered in an H₂ stream at 1000°C. Embedded in a holder with a paste of fine Ni powder and glycerin, they were sintered on the holder at 1000°C for 30 min. The sintering temperature was 1000°C, since the test in the melt was made at 700 - 800°C. After 2 - 3 min immersion of the holder in the melt, the microtap which serves to fill the sample pores with the melt was closed, and the connection to the air was opened. The gas consumption was determined from the period required for filling the pores. Further measurements were made at a constant pressure. The pressure drop at the beginning of the experiment was measured with a manometer by adjusting the microtap; the change in gas consumption was regulated by a rheometer. The bulk of the melt was probably removed within 1 - 2 min. The rest is practically not removed, since after the drop the pressure remained constant. The permeability was calculated from $P_{p_{mean}} = Q/[S \cdot \Delta p \sqrt{M/2\pi RT}]$ where $P_{p_{mean}}$ is the gas permeability, M

the molecular weight (g/mole), S the cross-sectional area of the sample (cm²), Q the gas flow rate through all sample cross sections (g/sec),
Card 2/3

31673

Corrosion tests of porous samples...

S/631/60/000/001/011/014
B110/B102

Δp the pressure drop on the sample(bar). $P_{p_m} = K \cdot Q$ with $K = 1/(S\Delta p M/2\pi RT)$

holds for constant pressure drop, temperature, and sample cross section. The melting temperature of the ternary eutectic mixture $K_2CO_3-Na_2CO_3-Li_2CO_3$ was $700^{\circ}C$ with He, and that of an equimolecular KCl-NaCl mixture was $800^{\circ}C$ with Ar. In the carbonate melt, a dense, clearly visible film grows on the pore surface, which covers the pores and makes the sample practically gas tight. In the chloride melt, however, the pore walls dissolve, the gas permeability increases with time, and fine-disperse, light-green, powdery nickel oxide precipitates. Since the change in permeability can be expressed in % the corrosion behavior can be determined rapidly and reliably. Thus, slow corrosion can also be studied with fine-disperse samples. There are 4 figures, 2 tables, and 3 Soviet references.

Card 3/3

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

ARKHIPOV, G.G.; TRUNOV, A.M.; STEPANOV, G.K.

Discharge of a carbonate ion on a platinum anode. Trudy Inst.
elektrokhim. UFAN SSSR no. 4:41-45 '63. (MIRA 17:6)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

TRUNOV, A.M.; STEPANOV, G.K.

Cathodic polarization of a porous silver electrode in molten
carbonates. Trudy Inst. elektrokhim. UFAN SSSR no.3:69-76
'62. (MIRA 16:6)

(Electrodes, Silver)
(Polarization(Electricity))
(Carbonates)

L 31818-66 EWT(m)/ETC(f)/T/EWP(t)/ETI IJF(c) DS/JD/WW/JG/RH

ACC NR: AP6012440

(A)

SOURCE CODE: UR/0364/65/001/012/1482/1485
RC
B

AUTHOR: Trunov, A. M.

ORG: Odessa State University im. I. Mechnikov (Odesskiy gosudarstvennyy universitet)

TITLE: Concentration polarization during electroreduction of oxygen in fused carbonates

SOURCE: Elektrokhimiya, v. 1, no. 12, 1965, 1482-1485

TOPIC TAGS: electrochemistry, oxygen, carbonate, porous metal, fuel cell, chemisorption, gas ionization

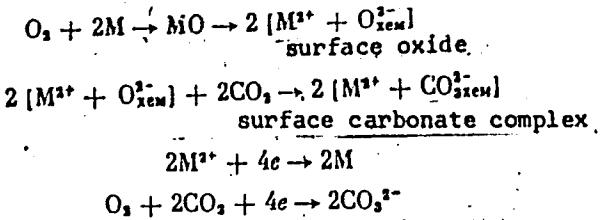
ABSTRACT: The temperature dependence of limiting current was studied in order to determine which stage in electroreduction of oxygen (in the presence of CO₂ above 500°C) is limited by activation polarization and which stage of the process is limited by the concentration polarization. The work was carried out with the electroreduction of oxygen in fused carbonates at a porous silver electrode. The following mechanism is proposed for the formation of carbonate ion:

UDC: 541.135.3:546

Card 1/3

L 31818-66

ACC NR: AP6012440



It follows that carbonate ion formation occurs on the surface of the electrode in the chemisorbed gaseous layer and not in the vicinity of the electrode layer of the melt as a consequence of the reaction of oxygen ions and dissolved CO_2 . It is suggested that electroreduction of oxygen in fused carbonates consists of at least the following stages: (a) transport of gases in the gas phase of the porous electrode; (b) absorption of gases by the melt film on the oxidized surface of the metal and diffusion of gases to the surface at the electrode; (c) chemisorption and ionization of gases on the metal oxide surface; (d) formation of carbonate complex on the surface of the electrode; (e) desorption of the carbonate complex from the electrode surface and migration of the

Card 2/3

L 31818-66

ACC NR: AP6012440

carbonate ion into the bulk of the melt. Study of the polarization curves for the reduction of oxygen in the presence of CO₂ on a porous silver electrode at different temperatures in a ternary eutectic of fused carbonates shows that diffusion is most probably inhibited in the electrolyte film: above 500°C log of limiting current is proportional to 1/T and not to log T. Orig. art. has: 1 figure.

SUB CODE: 07,20/ SUBM DATE: 08Feb65/ ORIG REF: 005/ OTH REF: 010

Card 3/3 20

L 10693-66 EWT(m)/ETC/ENG(m)/T/EWP(t)/EWP(b) DS/JD

ACC NR: AT5028244 SOURCE CODE: UR/2631/65/000/006/0081/0085

AUTHOR: Stepanov, G. K.; Trunov, A. M.

ORG: Institute of Electrochemistry, Ural Branch, Academy of Sciences, SSSR
(Akademiya nauk SSSR, Ural'skiy filial, Institut elektrokhimii)

TITLE: Electroreduction of oxygen in molten carbonates

SOURCE: AN SSSR. Ural'skiy filial. Institut elektrokhimii. Trudy, no. 6, 1965.
Elektrokhimiya rasplavlenykh soleyakh i tverdykh elektrolitov (Electrochemistry
of fused salts and solid electrolytes), 81-85

TOPIC TAGS: redox reaction, oxygen, carbonate, carbon dioxide, cathode polarization, ELECTRO CHEMISTRY, GAS ANALYSIS

ABSTRACT: The relationships governing the dissolution of the oxidizing agent (oxygen) during the cathodic polarization of a silver gas-diffusion electrode (bathed by an O₂ + CO₂ gas mixture) were studied by the coulometric method combined with an analysis of the gases being used. It is found that in an open cell, a substantial transfer of carbon dioxide from the oxygen electrode to the atmosphere with a decrease in the efficiency of the electrode could take place; this can be excluded to

Card 1/2

L 10693-66

ACC NR: AT5028244

some extent by selecting an optimum composition of the gas mixture or by preventing the process of thermal dissociation. It is shown that during the electroreduction of an O₂ + CO₂ mixture, two consecutive processes (the formation of carbonate and oxide ions) take place in molten carbonates. Orig. art. has: 3 figures, 1 table, and 6 formulas.

SUB CODE: 07 / SUBM DATE: None / ORIG REF: 005 / OTH REF: 002

Fused Salts

18

H W
Card 2/2

727
KI

A. V. TRUNOV

ZAGOTOVKA I PROMYSHLENNAYA PERERABUTKA
YAITS I PTITSY; PRAKТИЧЕСКОЕ ПОСОБИЕ
/PROCUREMENT AND DISTRIBUTION OF EGGS
AND POULTRY, BY B. YA' KAPLAN, YU. K.
KOVNATSKIY I. MOSKVA,
IZD-VO TSENTROSOYUZA, 1957.
311 P. ILLUS., DIAGRS., TABLES.
BIBLIOGRAPHY: P. 307-308

TRUNOV, A.Ya.

With the trackwalkers of the Karaganda section. Put' i put. khoz.
(MLBA 10:8)
no. 7:14-17 Jl '57.

1. Nachal'nik Karagandinskoy distantsii.
(Karaganda Province--Railroads--Maintenance and repair)

Trunov, A.Yu.
28(2) P.Y

PHASE I BOOK EXPLOITATION

SOV/2906

- Moscow. Vyssheye tekhnicheskoye uchilishche imeni Baumana. Kafedra matematicheskikh mashin
- Vychislitel'naya tekhnika (Computer Techniques) Moscow, Mashgiz, 1959. 153 p. (Series: Moscow. Vyssheye tekhnicheskoye uchilishche. Sbornik, No. 2) 2,500 copies printed.

Ed.: B.V. Anisimov, Candidate of Technical Sciences; Tech. Eds.: B.I. Model' and A.F. Uvarova; Managing Ed. for Literature on Machine Building and Instrument Construction: N.V. Pokrovskiy, Engineer.

PURPOSE: This book may be useful to Aspirants and other students specializing in computer technology, and also to designers and engineering and technical personnel who make use of electronic computers.

COVERAGE: The book is a collection of articles written by the members of the Department of Mathematical Machines at the Moskovskoye vysheye tekhnicheskoye uchilishche imeni Baumana (Moscow Higher Technical

Card 1/5

Computer Techniques

SOV/2906

School imeni Bauman) in honor of the 40th anniversary of the October Revolution. The articles contain the results of theoretical and experimental studies on the performance of various components of electronic computers. Among the topics discussed are program storage, control devices, the connection between the parameters of an algorithm and a machine, etc. The application of these components to the control of technological processes is also discussed.

TABLE OF CONTENTS:

Anisimov, B.V., Candidate of Technical Sciences, and B.I. Belov, Candidate of Technical Sciences. Program Storage for Specialized Electronic Computers	3
Trunov, A.Yu., Candidate of Technical Sciences. On the Design of Transient Processes in the Connecting Links of Trigger Circuits	14
Trubnikov, N.V. Candidate of Technical Sciences, and Ye.I. Nekrylov, Engineer. Certain Principles of Constructing Local Control by External Memory Devices	21

Card 2/5

Computer Techniques

SOV/2906

Anisimov, B.V., Candidate of Technical Sciences, and V.N. Golubkin,
Candidate of Technical Sciences. Analysis of the Quality of Servo-
Systems With Discrete Element 32

Dobrov, Ye.V., Engineer. The Effect of Block Diagram Parameters on
the Performance Quality of a Tubeless Direct Current Operational
Amplifier 46

Anisimov, B.V., Candidate of Technical Sciences, V.N. Golubkin,
Candidate of Technical Sciences, and Yu.M. Dovzhenko, Engineer.
Device for Transforming the Form of Recording of a Program 56

Vlasenko, V.I., Candidate of Technical Sciences, G.S. Zhdanov,
Professor, A.M. Dement'yev, Engineer, and I.M. Antonova, Engineer.
Method of Forming the Images of Numbers by Means of a Ferrite
Matrix 64

Shreyder, Yu.A., Candidate of Physical and Mathematical Sciences.
The Connection Between the Parameters of an Algorithm and of a
Machine 70

Card 3/5

Computer Techniques

SOV/2906

Anisimov, B.V., Candidate of Technical Sciences, V.N. Golubkin,
Candidate of Technical Sciences, and A.Ya. Savel'yev, Engineer.
Device for the Control of Recording of Information on Magnetic Tape 75

Vasil'yev, O.P., Engineer. Analysis of Certain Relationships for
an Economical Selection of the Dimensions of a Magnetic Drum 81

Anisimov, B.V., Candidate of Technical Sciences, and Yu. V.
Vinogradov, Engineer. On the Problem of the Exactness of the Re-
presentation of Continuously Varying Values in a Numerical Code 86

Shreyder, Yu. A., Candidate of Physical and Mathematical Sciences.
Solution of Boundary Value Problems by the Method of Polynomial
Approximations 95

Markov, G.Ya., Engineer. Certain Considerations on the Preventive
Control of Electronic Computers 99

M.S. Saplin, Engineer. Photoelectric Device Which Receives
Printed Numerical Signs 108

Card 4/5

Computer Techniques

SOV/2906

- Palashevskiy, A.M., Engineer. Analysis of Information Storage Components of Computers 121
- Chetverikov, V.N., Candidate of Technical Sciences. Relay Integrating Drive With Electromagnetic Powder Clutch 130
- Kalashnikov, V.A., Engineer. Certain Algorithms for the Rational Planning of Production 142
- Kuznetsov, M.M., Candidate of Technical Sciences. Circuit Mechanisms for Programmed Control 148

AVAILABLE: Library of Congress

Card 5/5

LK/bg
1-18-60

TRUNOV, D. (Aul Kubachi, Dagestanskaya ASSR).

Gadzhi Kishev from the village of Kubachi. Prom.koop. no.3:23-24
Mr '57. (MIRA 10:4)
(Kishev, Gadzhi) (Kubachi--Goldsmithing)

TRUNOV, Dmitriy Ivanovich; MAMAYEVA, O., red.; KORNEYEVA, V., tekhn. red.

[In the mountains of Daghestan] V gorakh Dagestana. [Moskva]
Izd-vo TsK VKSM "Molodai gvardiiia," 1958. 350 p. (MIRA 11:8)
(Daghestan--Description and travel)

TRUNOV, Dmitriy Ivanovich; BEREZIN, I.A., red.; MARAKASOVA, L.P.,
tekhn. red.

[Treasure gorges; four trips through the Northern Caucasus]
Ushchel'ia sokrovishch; 4 puteshestviia po Severnomu Kavkazu.
Moskva, Izd-vo "Sovetskaia Rossia," 1963. 380 p.
(MIRA 16:12)

(Caucasus, Northern--Description and travel)

IVANOV, V.; MARCHENKO, N.; TRUNOV, G.; RADIN, A.; YASEVICH, L.; DEGLIN, M.

Modernized quick-freezing system. Mias.ind.SSSR 35 no.1:37-38
'64. (MIRA 17:4)

1. Mandrykinskiy mashinostroitel'nyy zavod (for Yasevich).
2. Donetskii myasokombinat (for Deglin).

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

TRUNOV, G. A.

"Study of Black Bacteriosis of Wheats", Zapiski Khar'kovskogo sel'skozyaystvennogo instituta, Vol. 11, No. 1, 1939.

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3

RODIGIN, M.N., doktor biolog.nauk; TRUNOV, G.A., kand.sel'skokhoz.nauk

Internal therapy of plants. Zashch. rast. ot vred. i bol. 8 no.
11:17-19 N '63.

(MIRA 17:3)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001756820009-3"

USSR/Plant, Diseases - Diseases of Cultivated Plants.

0-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 30199

Author : Trunov, G.A.

Inst : Khar'kov Agricultural Institute.

Title : The Role of Mineral Nutrition in Wheat Diseases Resistance

Orig Pub : Zap. Khar'kovsk. s.-kh. in-ta, 1957, 13 (50), 107-116.

Abstract : In tests with Lyutetsens 238 winter wheat, the most effective fertilization in regard to increasing resistance to brown rust turned out to be the double side-dressing of KCl (8 kg. per ha.). The degree of injury dropped by approximately twice, while the grain yield increased by 18%. The infection of Artemovka summer wheat with brown rust was cut by 16.1% in comparison with the control having Erysiphe graminis by almost twice. Application of P_c (90 kg. per ha.) and KCl (60 kg. per ha.) before sowing doubly

Card 1/2

- 4 -

USSR/Plant Diseases - Diseases of Cultivated Plants.

0-3

Abs Jour : Rei' Zhur - Biol., No 7, 1958, 30199

increased summer wheat resistance to wheat bunt. Early spring supplemental feeding with 30 kg. per ha. of NH_4NO_3 , P₂O₅ and K₂O cut summer wheat infections in half. N in the form of urea decreased Erysiphe graminis damage by from 20% (in the control) to 13.4%. -- E.D. Yakimovich.

Card 2/2

Country : USSR

Category: Plant Diseases. Diseases of Cultivated Plants.

Abs Jour: RZhBiol., No 13, 1958, No 82665

Author : Trunov, G.A.; Maksyutin, G.V.

Inst : Khar'kov Agricultural Institute

Title : Extremely Low Temperatures and Smut in Wheat and
Onions.

Orig Pub: Zap. Khar'kovsk. s.-kh. in-ta, 1957, 13 (50), 117-121

Abstract: In 1954 an experiment was conducted to examine the possibility of finding a cure for loose smut in summer wheat by means of 3- and 4-hour treatment of the grain in chambers at low temperatures (-70 degrees) and in containers (?) with liquid nitrogen (-196 degrees). Treatment of the dry grain with these temperatures did not

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result in the cure of the wheat. With 4-hour treatment of the grain at -196 degrees even a certain increase in the loose smut infection was observed. In the 1955 experiment spores of the causal agent of wheat bunt did not propagate after refrigeration at -5 degrees for 2 days, and following treatment in liquid nitrogen (-196 degrees) for 50 hours. When spores of the causal agent of onion smut (*Urocystis cepulae* Frost) were treated for 50 hours at -196 degrees part of them retained their viability. -- G.A. D'yakova

Card : 2/2

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